

WHAT IS CLAIMED IS:

1. A receptacle type optical transmitter and/or receiver module comprising:

a printed wiring board having a first segment, a second segment, and a flexible portion for connecting said first segment and said second segment;

a first electric circuit component mounted on said first segment;

a second electric circuit component mounted on said second segment;

a socket mounted on said second segment; and

an optical module detachably mounted to said socket.

2. A receptacle type optical transmitter and/or receiver module according to claim 1, further comprising a lead frame on which said first segment of said printed wiring board is mounted.

3. A receptacle type optical transmitter and/or receiver module according to claim 2, further comprising a resin for sealing said printed wiring board, a part of said lead frame, and said socket except a portion for receiving said optical module.

4. A receptacle type optical transmitter and/or receiver module according to claim 2, wherein said optical module has a metal stem, and said metal stem is

in contact with said lead frame.

5. A receptacle type optical transmitter and/or receiver module according to claim 1, wherein said optical module comprises a LD module, and said second electric circuit component comprises a driver IC for driving said LD module.

6. A receptacle type optical transmitter and/or receiver module according to claim 1, wherein said optical module comprises a PD module, and said second electric circuit component comprises any one of a preamplifier and a CDR.

7. A receptacle type optical transmitter and/or receiver module according to claim 1, wherein:

said second segment is arranged substantially perpendicularly to said first segment and has first and second surfaces opposite to each other; and

said second electric circuit component is mounted on said first surface of said second segment, and said socket is mounted on said second surface of said second segment.

8. A receptacle type optical transmitter and/or receiver module according to claim 1, wherein:

said socket includes a first socket and a second socket; and

said optical module includes an LD module detachably mounted to said first socket and a PD module detachably mounted to said second socket.

9. A receptacle type optical transmitter and/or receiver module comprising:

a first printed wiring board;

a second printed wiring board arranged at a predetermined angle with respect to said first printed wiring board;

a flexible printed wiring board for connecting said first printed wiring board and said second printed wiring board;

a first electric circuit component mounted on said first printed wiring board;

a second electric circuit component mounted on said second printed wiring board;

a socket mounted on said second printed wiring board; and

an optical module detachably mounted to said socket.

10. A receptacle type optical transmitter and/or receiver module according to claim 9, further comprising a lead frame on which said first printed wiring board is mounted.

11. A receptacle type optical transmitter and/or

receiver module according to claim 10, further comprising a resin for sealing said first and second printed wiring boards, said flexible printed wiring board, a part of said lead frame, and said socket except a portion for receiving said optical module.

12. A receptacle type optical transmitter and/or receiver module according to claim 10, wherein said optical module has a metal stem, and said metal stem is in contact with said lead frame.

13. A receptacle type optical transmitter and/or receiver module according to claim 9, wherein said optical module comprises a LD module, and said second electric circuit component comprises a driver IC for driving said LD module.

14. A receptacle type optical transmitter and/or receiver module according to claim 9, wherein said optical module comprises a PD module, and said second electric circuit component comprises any one of a preamplifier and a CDR.

15. A receptacle type optical transmitter and/or receiver module according to claim 9, wherein:

said second printed wiring board is arranged substantially perpendicularly to said first printed wiring board and has first and second surfaces opposite

to each other; and

said second electric circuit component is mounted on said first surface of said second printed wiring board, and said socket is mounted on said second surface of said second printed wiring board.

16. A receptacle type optical transmitter and/or receiver module according to claim 9, wherein:

said socket includes a first socket and a second socket; and

said optical module includes an LD module detachably mounted to said first socket and a PD module detachably mounted to said second socket.

17. A receptacle type optical transmitter and/or receiver module comprising:

a first printed wiring board;

a first socket mounted on said first printed wiring board;

a second printed wiring board detachably mounted to said first socket;

a first electric circuit component mounted on said first printed wiring board;

a second electric circuit component mounted on said second printed wiring board;

a second socket mounted on said second printed

wiring board; and

an optical module detachably mounted to said second socket.

18. A receptacle type module for mounting an optical module, comprising:

a first printed wiring board;

a second printed wiring board;

a flexible printed wiring board for connecting said first printed wiring board and said second printed wiring board;

a first electric circuit component mounted on said first printed wiring board;

a second electric circuit component mounted on said second printed wiring board; and

a socket mounted on said second printed wiring board for detachably mounting said optical module.